Notice of Allowability	Application No.	Applicant(s)	
	09/916,241 Examiner	VAAL ET AL. Art Unit	
	Jonathan S. Crepeau	1746	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in the DL-85) or other appropriate communing NT RIGHTS. This application is sub-	nis application. If not include cation will be mailed in due	ded e course. THIS
1. 🔀 This communication is responsive to <u>amendment of a transfer</u>	<u>2/27/04</u> .		•
2. ⊠ The allowed claim(s) is/are <u>1-43</u> .			
3. ⊠ The drawings filed on <u>25 July 2001</u> are accepted by t	the Examiner.		
 4. Acknowledgment is made of a claim for foreign prio a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	s have been received. s have been received in Application I ity documents have been received in	No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING D noted below. Failure to timely comply will result in ABANE THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the re	equirements
 A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which 			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets"	') must be submitted.		
(a) including changes required by the Notice of Draft		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date _			
(b) ☐ including changes required by the attached Exan Paper No./Mail Date	niner's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 each sheet. Replacement sheet(s) should be labeled as such			ie back) of
 DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREM 			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 1 Nation of Infor	mal Datant Application (D3	TO 152\
 Notice of Neterences Cited (P10-692) Drawing Review (PT0-692) 		mal Patent Application (PT mary (PTO-413)	(0-152)
3. ☐ Information Disclosure Statements (PTO-1449 or PTC	Paper No./Ma	ail Date nendment/Comment	
Paper No./Mail Date <u>1/7/04</u>			lauran -
 Examiner's Comment Regarding Requirement for Dep of Biological Material 	9. ☐ Other	atement of Reasons for Al	iowance

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE SPECIFICATION:

On page 25, line 12, after "(Atty. Docket No. 130109.427)" insert --, now abandoned--.

Terminal Disclaimer

2. The terminal disclaimer filed on February 27, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Serial No. 09/916,240 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

- 3. Claims 1-43 are allowed.
- 4. The following is an examiner's statement of reasons for allowance (the reasons are identical to those set forth in the previous Office action but are reiterated herein):

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Each of independent claims 1, 12, 21, 31, and 38 recites method or apparatus for measuring the oxygen concentration of ambient air in the vicinity of a fuel cell system, and ceasing operation of the system when the measured oxygen concentration falls below a threshold value. The art of record does not teach or fairly suggest these limitations. JP 8-185879 discloses a method in which nitrogen is flowed through a fuel electrode flow field and a decrease in oxygen concentration on the air electrode side is used to detect gas leakage through the electrolyte. The reference is deficient because the oxygen concentration of the ambient air surrounding the fuel cell is not measured and the fuel cell is already in a shutdown state when the method is performed. JP 8-88014 discloses monitoring the oxygen concentration of an anode exhaust gas and shutting down the system when the oxygen level is above a specified value. However, this reference does not fairly suggest monitoring the oxygen concentration of the ambient air surrounding the fuel cell or that the system is shut down when the value is below a threshold value. JP 7-169481 discloses a fuel cell contained within a nitrogen-filled container (1), wherein hydrogen and oxygen levels within the container are monitored and the fuel cell shut down when either level is too high. However, this reference does not fairly suggest that the enclosure contains "ambient air" or that the system is shut down when the oxygen level is below a threshold value. Accordingly, the instant claims contain allowable subject matter.

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Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299.

The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached at (571) 272-1302. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Patent Examiner

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May 2, 2004